Pre-Processing Sink

Operator's Manual

83- S1 / 83-S3 *

83-S6 / 83-S8 *

CUSTOM
ULTRASONICS
INC.

P.O. Box 850 Buckingham, PA 18912
Phone 215-364-1477 FAX 215-364-7674
www.customultrasonics.com

* 83-S5 not pictured

TABLE OF CONTENTS:

	PAGE
Table of Contents	1
Introduction	2
Description / Capacities	3-4
Operating Procedure for S1 & S3 Models	5
Operating Procedure for S6 & S8 Models	6
Installation Requirements	7
Maintenance of the Pre-processing Sink	7
Procedure to Reset the Detergent Timer	8

Pre-Processing Sink

Designed to accommodate the requirements of pre-processing the endoscope prior to automated washing and disinfecting in System 83 Plus™, the pre-processing sink provides adequate size and adaptation to the endoscope to remove gross contaminants.

The sink is custom designed to aid the technician in manually pre-processing flexible instruments according to SGNA, AORN, APIC, ASGE, and CDC guidelines. The sink will reduce handling damage costs, improve brushing without violating the bending diameter of the instruments, assist with mechanical liquid purging and serve to keep contaminated scopes in a designated area while awaiting automated re-processing.

The sink chamber is of a size to provide sufficient space to accommodate all flexible and most rigid[1] endoscopes and accessories, to manually wipe down the insertion tube (exterior jacket) of the endoscope, to brush the channels, and to soak the entire endoscope or accessory to loosen dried or stubborn debris.

Available in two chamber sizes either modular or counter recessed:

Model 83-S1: Modular**	Chamber size: 28” x 16” x 5” (fill depth)
Model 83-S3: Insert**	Chamber size: 28” x 16” x 5” (fill depth)
Model 83-S5: Modular	Chamber size: 18” x 18” x 7” (fill depth)
Model 83-S6: Modular	Chamber size: 28” x 16” x 3.5” (fill depth)
Model 83-S8: Insert	Chamber size: 28” x 16” x 3.5” (fill depth)

Model 83-S5 is available as part of System 83 Plus™ Re-Processing Center, which contains a System 83 Plus™ Endoscope Washer-Disinfector and an 83-S5 Pre-Processing Sink in one console.

** The S1 and S3 models are discontinued and were replaced by the S6 and S8.

Please contact customer service for available installation drawings for more detailed information.

[1] Excludes Model 83-S5

DESCRIPTION:

S1 & S3 Style Sink:

The Pre-Processing Sink is designed with a gooseneck faucet with hot and cold-water valves and a hand-sprayer. The unique feature of the Pre-Processing Sink is an eight--port manifold connected to an oscillating pump and an electrically operated water valve (solenoid) to mechanically fill the internal channels of the instruments.

The eight-port manifold, located within the sink chamber, is connected to the detergent bottle via an oscillating pump. The scope is connected to the manifold, and by activating the oscillating pump; the internal channels are filled with your choice of detergent. These ports allow adaptation to eight individual endoscope channels (usually two endoscopes).

The OSCILLATING PUMP is activated by a switch located in the upper right hand corner of the front panel door designated PURGE. By holding the switch for the amount of time necessary to fill the internal channels, the detergent solution can be maintained within the scope channels for the amount of time designated by the detergent manufacturer's directions.

A gooseneck faucet, with hot and cold water valves, is used to fill the sink with water at the desired temperature.

S5, S6 & S8 Style Sink:

The Pre-Processing Sink is designed with a gooseneck faucet with hot and cold-water valves and a hand-sprayer. The unique feature of the Pre-Processing Sink is a ten-port manifold connected to a purge/high-pressure pump. As well as an automatic water shut-off.

The ten-port manifold (eight of which are standard pressure while 2 are high pressure adapters), located within the sink chamber, is supplied pre-mixed solution via the filtered purge pump intake located inside the sink chamber. The detergent is delivered at a set rate, determined by a digital timer (which can be adjusted by settings on the dip switch-[refer to page 8]) that is able to be set at the appropriate level as per manufacturers specification on the detergent bottle (factory set at ≈25sec.). Turn on the hot and cold water valves (to desired temperature) and at the same time, activate the momentary detergent switch to get the proper mix of detergent and water for purging. If inadvertently left unattended, the water will automatically shut off when the electronic shut-off sensor is reached (this will take approx. 3 min.). When the proper level is reached, the alternate action purge switch should be activated to begin the purge sequence. Since the purge switch is alternate action, it must be turned on and off manually. The solution will be pulled through the filtered purge pump intake, through the purge/high-pressure pump to the appropriate ports which direct the solution to the various endoscope channels.

SINK CAPACITY - Use detergent dilution based on detergent manufacturer's direction.

28"(L) x 16"(W) x 7"(D) SINK (Model 83-S1, S3, S6, S8)
*3.5" liquid level ≈ 6.5 gallons

18"(L) x 16"(W) x 10"(D) SINK (Model 83-S5)
*7" liquid level ≈ 5 gallons

To the ***SIDE of the goose neck faucet*** is a stainless knob controlling the drain.

A. ***Press down*** on the knob, and the sink drain is sealed preventing liquid from draining from the sink.

B. ***Pull up*** on the knob, and liquid will drain from the sink. Thus; it is not necessary to reach into the sink to empty liquid, which is the normal procedure to drain standard sinks.

NB: Pulling forward or pushing back on the drain valve control will cause it to break which is not covered under warranty. Only pull straight up and push straight down.

S1 & S3 Models:

Following the pre-processing cleaning phase, the sink can be drained by pulling up on the knob located next to the faucet. After draining, engage the RINSE switch on the left of the CONTROL PANEL. This is a MOMENTARY ACTION SWITCH. When engaged, water from the hospital source will continue to flow through the channels until the switch is released.

On the S-1 & S-3 a pressure-reducing valve built in to the plumbing of the PRE-PROCESSING SINK can be set to control the flow of rinse water within the pressure parameters of both flexible and rigid endoscopes.

S6 & S8 Models:

Following the pre-processing cleaning phase, the sink can be drained by pulling up on the knob located next to the faucet. After draining, you must fill the sink until it hits the shut-off sensor. Then, press the PURGE switch, which is an alternate action switch. When engaged, the detergent-free water will now rinse the interior/exterior of the scope(s). When finished rinsing, pull up on the drain handle to empty the sink basin. At this point, you can also use the spray rinse handle to further rinse the exterior of the scope.

Alternately, if the optional fresh water rinse feature was selected, after draining the wash water, activate the fresh water rinse switch to allow fresh water to flow directly through the endoscope channels.

OPERATING PROCEDURE:

S1 & S3 Models:

1. Ensure a sufficient quantity of detergent is available in the bottle.
2. Place the instruments for pre-processing in the sink.
3. Following the SGNA, AORN, APIC, ASGE, and CDC guidelines, clean gross contaminates from the instruments, and brush internal channels as required.
4. Connect adapters from the instrument channels to the sink manifold. For instructions on how to hook up and leak test the scopes refer to the In-Service Program/Report Form, the Scope Adaptation For All Model Endoscopes and/or the Scope Adaptation For All Model Endoscopes Using High Pressure Port and Adapting To Scope Model Picture.
5. Press down on sink drain control knob to seal sink drain.
6. Press and hold the PURGE SWITCH on the Control Panel until sufficient detergent exits from the channels.
7. Fill the sink with the desired water temperature to fully immerse the instruments and add detergent.
8. After the appropriate soak time, drain the sink by pulling up on the drain knob.
9. Press and hold the RINSE SWITCH on the Control Panel and purge the channels with water. On completion, release the Rinse Switch.
10. Use the faucet and/or hand spray to rinse the instruments and sink.
11. Remove the instruments. For flexible instruments to be processed in System 83, leave the adapters used during pre-processing attached to the instrument, and connect directly into the System 83 manifold. Refer to the System 83 operator's manual for proper adaptation hook ups to the manifold in the scope washer-processing chamber.

S5, S6 & S8 Models:

1. Ensure a sufficient quantity of detergent is available in the bottle.
2. Place the instruments for pre-processing in the sink and add a sufficient amount of water for brushing.
3. Following the SGNA, AORN, APIC, ASGE, and CDC guidelines, clean gross contaminates from the instruments, and brush internal channels as required.
4. Connect adapters from the instrument channels to the sink manifold. For instructions on how to hook up and leak test the scopes refer to the In-Service Program/Report Form, the Scope Adaptation for All Model Endoscopes, and/or the Scope Adaptation for All Model Endoscopes Using High Pressure Port and Adapting to Scope Model Picture.
5. Press down on sink drain control knob to seal sink drain.
6. Press the DETERGENT SWITCH, and the pre-determined amount of detergent will enter the sink basin. (The factory pre-set is ≈1 oz/gallon)
7. (a) Automatic shut-off option- Turn on Hot/Cold water handles to desired temperature and allow the sink to fill to just below the overflow sensor in the front left wall of the basin. In the event the filling cycle is inadvertently left unattended, the sink will fill to appropriate operating level and shut off. [Note: Consistent use of this feature may result in damage to the sensor board.]

7. (b) Foot pedal option- Depress foot pedal(s) and fill to the bottom of the Static Overflow, to insure the proper dilution rate of the detergent when mixing with the fresh water inside the wash chamber.

8. Press PURGE SWITCH. As this switch is alternate action, it will stay on until manually shut down. This is to allow for different soak times. Up to 2 gallons of water per minute will circulate through the endoscope channels.
9. After the appropriate soak time, drain the sink by pulling up on the drain knob.
10. The endoscopes may then be transferred to System 83 Plus™ (see #12 below) or you may fill the sink with detergent-free water, activate the PURGE SWITCH, and rinse the scope or activate the optional fresh water rinse switch (if so equipped).
11. Upon completion, pull drain handle and use spray rinse handle to rinse the instruments inside the sink basin.
12. Remove the instruments. For flexible instruments to be processed in System 83, leave the adapters used during pre-processing attached to the instrument, and connect directly into the System 83 manifold. Refer to the System 83 operator's manual for proper adaptation hook ups to the manifold in the scope washer-processing chamber.

INSTALLATION REQUIREMENTS:

Model Numbers 83-S1, 83-S5 and the 83-S6 are designed in painted carbon steel cabinets with casters.
Model Number 83-S3 and 83-S8 are designed to be dropped in to an existing cabinet or casework:

EACH requires:

- One (1) 110 Volt, 15 amp GFCI electrical service
- One (1) each, ½" HOT and COLD water lines with valves and ¾" male garden hose adapters.
- 5µ water sediment filters are recommended for protection of the internal plumbing of the Sink and the components of the endoscopes being cleaned.
- One (1) appropriately sized drain.

CONTACT THE FACTORY FOR DETAILED INSTALLATION SPECIFICATIONS.

MAINTENANCE OF THE PREPROCESSING SINK:

The SINK CHAMBER should receive normal housekeeping measures using a stainless steel cleanser and soft cloth.

All internal solenoids should be cleaned on a quarterly basis.

Replacement adapters can be purchased by, FAXING your order to CUSTOMER SERVICE at 215-364-8760.

PROCEDURE TO RESET THE DETERGENT TIMER:

You need to know how much of your detergent you would like to have in each wash cycle.

In the metal box below the sink is a digital timer. The timer has a set of binary switches as noted on the bottom of the page.

Use the center bank of switches as shown in the diagram. [The left and right banks are blanked out and are for different model switches.]

The number next to each switch is the number of seconds that the pump will stay on -- and they are additive.

Approximately 0.14 ounces are delivered per second of pump operation. [1 oz / 7sec].

The volume in the sink (to the bottom of the sensor) is ~6 GAL.

Set-up Examples:

If your detergent says 1 oz per gallon, the switches need to be set to add up to 42 sec. [7 sec/oz X 6 oz]

That means only switches 2, 8, and 32 should be in the ON position. [Adding 2+8+32=42]

If your detergent says 1/2 oz per gallon, the switches need to be set to add up to 15 sec. [7 sec/oz X 3 oz]

That means only switches 1, 4, and 16 should be in the ON position. [Adding 1+4+16=21]